FR 101

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY	East Germany Elektrochemische	s Kombinat Bitterfeld	REPORT DATE DISTR. 22 Octob	per 1953
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Chlorination kiln

11. Work on this project has now been completed. The kiln has been delivered to the Russian authorities and has left the factory. It was finally packed in about 10 crates and dispatched to Leuna. Each crate was inscribed in Russian and German, and marked "place of dispatch: Leuna." The receiving address was:

Kraftwerk der Sued Ural Eisenbahn Betrieb des Direktors Karjagin (Translation)
(Electric Station of the South Ural Railroad)
(Concern of Director Karyagin)

(in Cyrillic)
Poluchatel Elektrostantsiy
Yuzh Uralskoy Zh D
Predpriyatiye Direktora
Karyagina

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2. The final form of the kiln was as shown on the attached sketch. It was tested with an ilmenite-sand mixture (10:90). A daily production of \(\frac{1}{2} \) ton mixture was achieved. The ilmenite was completely chlorinated but the greater proportion of the TiCl, so produced went up the chimney. It was found that this could be retained if the effluent gases were washed with water (sic) but this was not done because it was too complicated. It was tried for about a quarter of an hour and the final results for the acceptance committee fixed so that it appeared as though all the test runs were conducted in this manner.

Calcium distillation.

3. This project (for the reactivation of the distillation plant) has been allowed to drop. 1

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25 YEAR RE-REVIEW

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Aluminum production.

- 4. 99.5%. Production in Work I is at present about 1,500 tons² per month. Works II is not yet in operation, in fact the old plant is still in the process of being dismantled.
- 5. 99.9%. Production is about 10 tons per month. Most of this is said to be sent to the East German factories making electrolytic condensers and a smaller part used for the manufacture of apparatus.
- 6. Alumina from clay. A plant with a 200,000 tons production capacity per year is being planned but will certainly not be ready during 1953. It will probably be erected near Lauta rather: than Bitterfeld and will operate the combined process (Specketer Penjakoff) and the Specketer process, returning the Specketer mother liquid for work-up by the combined process as previously reported. At the moment experiments are under way to simplify the further work-up (splitting off of HCl) of the Tauchbrenner product. It is hoped to be able to process this further without preliminary filtration as at present, i.e. to feed the decomposition kilns with a much wetter material than at present.

Magnesium

- 7. <u>Metal</u>: The site for the plant is still being cleared. The plant is to produce 20,000 tons per year.
- 8. Anhydrous chloride: Experiments have gone well and are virtually completed. The MgCl₂ solution is reduced to MgCl₂.6H₂O by a spray drying process. This is further dehydrated to MgCl₂O.2H₂O (overall composition) in a rotating kiln and this product further completely dehydrated in a stream of HCl. Responsible for this work was Dr. Bauer who will manage the magnesium plant when erected.

Titanium metal

9. Laboratory experiments in the production of titanium have gone well. Titanium mud or sludge is being produced in lots of about 100 gm. using the Koll process (TiCl₄ + Mg). Instead of using a noble gas to produce an inert atmosphere, EKB uses the TiCl₄ vapor itself. MgCl₂ and superfluous Mg are later distilled off in vacuo leaving a more or less pure or ductile titanium. The purity has not yet been exactly determined.

Germanium

10. Dr. Wehnert recently had an analysis made of the flue dust from the EKB furnaces. It was found to contain Ge to the extent of .02% (20 mg. per Kg.). No analysis was made of the furnace ash and it is not known if any attempt is to be made to recover this small quantity.

Fluorine

11. EKB is to drop its fluorine separation program. Radebeul has also ceased fluorine production for lack of customers but the Freon 12 plant is still in operation there.

Other chemicals

- 12. Boric acid: The plant is now operating on a one shift basis and is shortly to cease operating. Production will be taken up by an unspecified small firm.
- 13. Sulphuric acid: The H2SO4-from-gypsum plant is not in action yet and con-

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	sequently there is a great shortage of H ₂ SO ₄ ; one rabout a month the HCOOH (formic acid) plant has been	esult has been out of act	en that ion.	for
	Iron powder: Production continues as usual.	7.5		
	Acetone: This product is in very short supply.			
1	Fluorinated PCU: This work has proved very difficu	ilt and no re	al succ	888
1	has been achieved.			
-	Rhenium: No use has yet been found for the Mansfel that the plant was built mainly to win a national p	ld rhenium. orise.	It is m	umored
1	Carbonyl iron: A research order was recently (in linvestigate this process. It was later cancelled was a mistake since Leuna was already working on it is a pilot plant in production at Leuna.	with the comm	ent tha	t 1t
]	New metal research laboratory.			
1	A new building is being erected between the present building 139. When it is completed, all the occupa including the metal laboratory itself will move int metal research laboratory will be established in t	ints of the o	ld build "light	ding
1	will serve not only EKB but the whole of East Germa Fersonnel changes. etc.: a. Dr. Otto Seipold - Director for research and de	ny.		
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